

MATERIAL SAFETY DATA SHEET



4700 W. 160TH Street
P.O. Box 35906
Cleveland, Ohio 44135
Emergency Tel No.
(303) 623-5716 Collect

#5 PASTE FLUX

SECTION 1

IDENTITY OF MATERIAL

Trade Name: OATEY #5 PASTE FLUX
Product Numbers: 30011, 30012, 30013, 30014, 30041, 53017
Formula: N/A
Synonyms: Flux for Copper Pipe
Firm Name & Mailing Address: OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. <http://www.oatey.com>
Oatey Phone Number: (216) 267-7100
Emergency Phone Numbers: For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300

SECTION 2

COMPOSITION

INGREDIENTS:	%:	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA:
Petrolatum	65 - 77%	8009-03-8	5 mg/m3 (oil mist)	5 mg/m3 (oil mist)
Zinc Chloride	20 - 25%	7646-85-7	1 mg/m3 (fume) 2 mg/m3 STEL	1 mg/m3 (fume)
Ammonium Chloride	1 - 5%	12125-02-9	10 mg/m3 (fume) 20 mg/m3 STEL	None Established

SECTION 3

EMERGENCY OVERVIEW

Yellow paste with a slight odor. Toxic. May cause burns to the eye and skin. Inhalation of fumes may cause respiratory irritation, metal fume fever, chills, nausea and vomiting. Swallowing may cause burns to the mouth or throat, vomiting, diarrhea and kidney or liver disorders. May be fatal. Symptoms may be delayed.

NFPA Hazard Signal: Health: 3 Stability: 1 Flammability: 0 Special: None
HMIS Hazard Signal: Health: 3* Stability: 1 Flammability: 0 Special: None
OSHA Hazard Classification: toxic, target organ effects
Canadian WHIMS Classification: Class E

SECTION 4

EMERGENCY AND FIRST AID PROCEDURES - CALL 1-303-623-5716 COLLECT

Skin: Remove contaminated clothing. Wash thoroughly with soap and water. Call a physician or poison control center if irritation persists.

Eyes: Remove contact lenses if any. Rinse eyes with water for 15 minutes. Get immediate medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm.

Call a poison control center or physician immediately.

Ingestion: **DO NOT INDUCE VOMITING.** Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

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SECTION 5 FIRE FIGHTING MEASURES

Flashpoint / Method: 540 F / 282 C
Flammability: LEL = N/A, UEL = N/A
Extinguishing: Small Fires: Use dry chemical, CO2, water, or foam extinguisher
Media: Large Fires: Evacuate area and call Fire Department immediately
Special Fire: Firefighters should wear positive pressure self-contained
Fighting: breathing apparatus and full protective clothing for fires in
Procedure: areas where chemicals are used or stored
Unusual Fire and: None known.
Explosion
Hazards:
Hazardous: Hydrocarbons, hydrogen chloride, zinc fumes, tin fumes, copper
Decomposition: fumes, ammonia, smoke, carbon monoxide, carbon dioxide and
Products: nitrogen oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or: Ventilate area. Stop leak if it can be done without risk. Personnel
Leak: cleaning up the spill should wear appropriate personal protective
Procedures: equipment. Take up spill with sand, earth or other absorbent material
and place into a clean, dry leak-proof container.

SECTION 7 HANDLING AND STORAGE

Handling: Do not get in eyes. Do not get on skin or clothing. Do not take
internally. Avoid breathing vapors or fumes. Use only with adequate
ventilation. Wash thoroughly after handling. Keep container closed
when
not in use. Handle with care. Keep out of reach of children.
Storage: Store in original, labeled container.
Other: Containers, even empty will retain residue and may be harmful.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Good general ventilation (equivalent to outdoors) should be adequate
for normal use. For operations where the TLV may be exceeded,
mechanical ventilation such as local exhaust may be needed to
maintain
exposure levels below applicable limits.
Respiratory: For operations where the TLV may be exceeded, a NIOSH/MSHA approved
Protection: particulate respirator or supplied air respirator is recommended.
Equipment selection depends on contaminant type and concentration,
select in accordance with 29 CFR 1910.134 and good industrial hygiene
practice. For firefighting, use self-contained breathing apparatus.
Skin: Wear rubber gloves.
Protection:
Eye: Safety glasses with sideshields or safety goggles.
Protection:
Other: Eye wash and safety shower should be available.

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PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 638 Degrees F / 337 C
Melting Point: N/A
Vapor Pressure: N/A
Vapor Density: (Air = 1) Greater than 1
Volatile Components: 7-10%
Solubility In Water: Negligible
pH: N/A
Specific Gravity: 1.1
Evaporation Rate: N/A
Appearance: Yellow Paste
Odor: Very little odor
Will Dissolve In: Methylene Chloride
Material Is: Paste

SECTION 10

STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Avoid: None.
Hazardous copper: Hydrocarbons, hydrogen chloride, zinc fumes, tin fumes,
Decomposition fumes, ammonia, smoke, carbon monoxide, carbon dioxide and
Products: nitrogen oxides.
Incompatibility/ Strong oxidizing agents, potassium, cyanides and sulfides.
Materials To Avoid:
Hazardous Will not occur.
Polymerization:

SECTION 11

DISPOSAL INFORMATION

Waste Disposal: Dispose of in accordance with federal, state, and local regulations.
It is the responsibility of the end-user to determine at the time of disposal of the product.

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SECTION 12

TOXICOLOGICAL INFORMATION

Inhalation:
and

Fumes from heated product may be corrosive to mucous membranes

the respiratory system. Fumes may cause burning sensation, coughing, wheezing, shortness of breath, cyanosis, fever, chills, muscular pain, anemia, metallic taste in the mouth, headache, nausea, vomiting, sweating, diarrhea and pulmonary edema. Fumes may cause stannosis, a mild benign pneumoconiosis. Repeated inhalation of fumes may cause occupational asthma. Symptoms may

be

delayed.

Skin:

Contact may cause irritation, ulcerations, burns or dermatitis. Symptoms may be delayed.

Eye:

Vapors or fumes may cause redness, pain, blurred vision and corneal damage. Direct contact may cause burns and eye damage

with

possible blindness. Symptoms may be delayed.

Ingestion:

May cause irritation or burns to the mouth and throat, nausea, vomiting or diarrhea. Death may occur from strictures of the esophagus and pylorus. Symptoms may be delayed.

Toxicity Data:

Petrolatum: No data available

Zinc Chloride: Oral rat LD50: 350 mg/kg

Ammonium Chloride: Oral rat LD50: 1,650 mg/kg

Sensitization:

None of the components are known to cause sensitization.

Carcinogenicity:

None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.

Mutagenicity:

None of the components have been found to be mutagenic.

Reproductive

None of the components are known to cause adverse reproductive effects.

Toxicity:

Medical

Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

Conditions

Aggravated By

Exposure:

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SECTION 13 TRANSPORTATION INFORMATION

DOT

Proper Shipping Name: Zinc Chloride Mixture
Hazard Class/Packing Group: 8, PG III
UN/NA Number: UN1840
Hazard Labels: Non-Corrosive

IMDG

Proper Shipping Name: Zinc Chloride Mixture
Hazard Class/Packing Group: 8, PG III
UN Number: UN1840
Label: Non-Corrosive

RCRA Hazardous Waste Number: None
EPA Hazardous Waste ID Number: None
EPA Hazard Waste Class: None

SECTION 14

REGULATIONS

Hazard Category for Section 311/312: Acute Health, Chronic Health

Section 302 Extremely Hazardous Substances (TPQ): This product does not contain chemicals regulated under SARA Section 302.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

<u>Chemical</u>	<u>CAS #</u>	<u>%</u>
Zinc Chloride	7646-85-7	20-25%

CERCLA 103 Reportable Quantity: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Zinc Chloride (25% maximum) of 1,000 lbs, is 4,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product does not contain chemicals regulated under California Proposition 65.

TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

SECTION 15 DISCLAIMER

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.